

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number
WO 2005/073731 A3

(51) International Patent Classification⁷: G01N 33/68 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/GB2005/000328

(22) International Filing Date: 27 January 2005 (27.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 0402123.4 30 January 2004 (30.01.2004) GB

(71) Applicant (for all designated States except US): PROTHERICS MOLECULAR DESIGN LIMITED [GB/GB]; The Health Business and Technical Park, Runcorn, Cheshire WA7 4QF (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DOWNHAM, Matthew, Richard [GB/GB]; The Health Business and Technical Park, Runcorn, Cheshire WA7 4QF (GB). GLOVER, James, Francis [GB/GB]; The Health Business and Technical Park, Runcorn, Cheshire WA7 4QF (GB). HANILY, Rachel, Emma [GB/GB]; The Health Business and Technical Park, Runcorn, Cheshire WA7 4QF (GB).

(74) Agent: COCKBAIN, Julian; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB).

(81) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

(88) Date of publication of the international search report: 23 March 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/073731 A3

(54) Title: CJD PRION TESTING

(57) **Abstract:** The present invention provides an assay method for detecting infectious prion protein in a sample from a mammalian subject, said method comprising: obtaining a prion protein containing sample from said subject; contacting said sample with an agent which serves to digest non-infectious prion protein and to partially digest infected prion protein to yield a prion protein polypeptide residue; contacting the digested sample with an antibody capable of binding to a polypeptide having the amino acid sequence Vc (Gly-Gly-Gly-Trp)-Gly-Gln-Gly-Gly-R₁-R₂-His -R₃-Gln-Trp-Asn-Lys-Pro-R₄-Lys-Pro-Lys-Thr-R₅-R₆-Lys (-His-R₇-Ala-Gly) (Vc) and detecting conjugates of said antibody and said prion protein polypeptide residue; characterized in that the detection of said conjugates comprises chemical, biological or biochemical amplification of a detectable species and detection of the amplified species.